

Instruments for preparing independent kungfu environment

1. 本文档中我全部使用 su - 转换成 root 来执行，你可以使用 sudo 来执行

2. yum install rpm-build

3. yum install numactl

#install gcc

yum groupinstall "Development Tools"

4. guide of install cmake-[3.8.*]:

wget <https://cmake.org/files/v3.11/cmake-3.11.3.tar.gz>

tar zxvf cmake-3.11.3.tar.gz

cd cmake-3.11.3/

./bootstrap

[返回显示.....CMake has bootstrapped. Now run gmake.]

gmake

gmake install

/usr/local/bin/cmake --version

[返回显示...cmake version 3.11.3]

cmake -version

[返回显示...cmake version 3.11.3]

5. commands of install log4cplus [<https://github.com/log4cplus/log4cplus>]:

git clone <https://github.com/log4cplus/log4cplus.git>

cd log4cplus/

git submodule update --init --recursive

mkdir build

cd build

cmake ..

make

make install

[返回显示...../usr/local/lib64/liblog4cplus.so]

[返回显示....Installing: /usr/local/bin/loggingserver.....]

[注意发现功夫的 **docker** 这些文件都在另一个目录，所以需要建立 4 个链接文件]

###ln [参数][源文件或目录][目标文件或目录]

ln -s /usr/local/bin/loggingserver /usr/bin/loggingserver

ln -s /usr/local/lib64/liblog4cplus.so.2.0.0 /usr/lib64/liblog4cplus.so.2.0.0

ln -s /usr/local/lib64/liblog4cplus.so.0 /usr/lib64/liblog4cplus.so.0

ln -s /usr/local/lib64/liblog4cplus.so /usr/lib64/liblog4cplus.so

add LD_LIBRARY_PATH for all users

The cleanest way to add a library to the search path is by adding a file to
/etc/ld.so.conf.d/

suppose log4cplus is installed in /usr/local/lib, run :

#echo "/usr/local/lib" >> /etc/ld.so.conf.d/log4cplus-2.0.so.conf

my log4cplus is installed in /usr/local/lib64, run :

echo "/usr/local/lib64" >> /etc/ld.so.conf.d/log4cplus-2.0.so.conf

load the new configuration, run the following command as root:

ldconfig -v

ldconfig

6. guide of install pid-2.1.1:

yum install python-nose

```
curl "https://bootstrap.pypa.io/get-pip.py" -o "get-pip.py"
```

```
python get-pip.py
```

```
pip -V
```

```
pip install pid
```

7. install supervisor

install dependency meld3 (yum install python-meld3)

```
yum install python-meld3
```

I meet no package python-meld3 available error, and run 'yum update',

#you may not need it

```
pip install meld3
```

```
pip install supervisor
```

8. guide of install boost-1.62:

#there is no python in it, you need reference :

[#https://blog.csdn.net/majianfei1023/article/details/46781581](https://blog.csdn.net/majianfei1023/article/details/46781581)

```
sudo yum install python-devel
```

wget

https://sourceforge.net/projects/boost/files/boost/1.62.0/boost_1_62_0.tar.gz

tar zxvf boost_1_62_0.tar.gz

cd boost_1_62_0

mkdir /opt/kungfu/

mkdir /opt/kungfu/toolchain

mkdir /opt/kungfu/toolchain/boost-1.62.0

#安装 boost 基础库

./bootstrap.sh --prefix=/opt/kungfu/toolchain/boost-1.62.0

./b2 install --prefix=/opt/kungfu/toolchain/boost-1.62.0

#执行第二遍，专门安装 boost.python

./b2 --with-python --prefix=/opt/kungfu/toolchain/boost-1.62.0 install

#there is /usr/lib64/libpython2.7.so, but we need libpython.so, run this

command to make a soft link:

ln -s /usr/lib64/libpython2.7.so.1.0 /usr/lib64/libpython.so

#maybe need a reload:

ldconfig

#ldconfig -v

9. guide of install rfoo [<https://github.com/aaiyer/rfoo>]:

#looks rfoo requires python, so I run it after boost.python installed.

git clone <https://github.com/aaiyer/rfoo.git>

cd rfoo/

#install dependency Cython first

pip install Cython

#[遇到错误信息]

#ipacient 4.5.4 requires jinja2, which is not installed.

#rtslib-fb 2.1.63 has requirement pyudev>=0.16.1, but you'll have pyudev 0.15

#which is incompatible.

#ipapython 4.5.4 has requirement dnspython>=1.15, but you'll have

#dnspython 1.12.0 which is incompatible.

#解决:

#安装 jiaja2

yum -y install python-jinja2

#更新 pyudev

git clone https://github.com/lunaryorn/pyudev.git

cd pyudev

sudo python setup.py install

#更新 dnspython

wget http://www.dnspython.org/kits/1.15.0/dnspython-1.15.0.tar.gz

tar -zxvf dnspython-1.15.0.tar.gz

cd dnspython-1.15.0

sudo python setup.py install

#再运行一遍 pip install Cython 不再显示错误

#继续执行 rfoo 的安装

sudo python setup.py install

#遇到错误 unknown file type '.pyx' (from 'rfoo/marsh.pyx') 解决办法:

修改 vi setup.py 里面的 ext_modules 定义, 把这一行:

ext_modules = [Extension("rfoo.marsh", ["rfoo/marsh.pyx"])]

#改成空:

ext_modules = []

然后再次执行：sudo python setup.py install 就可以了。

10. compiling kungfu and install kungfu

git clone <https://github.com/taurusai/kungfu.git>

cd kungfu

mkdir build

cd build

cmake..

make

make package

yum install kungfu-0.0.5-Linux.rpm

现在安装会报错：

Error: Package: kungfu-0.0.5-20180615193550.x86_64 (/kungfu-0.0.5-Linux)

Requires: rfoo >= 1.3.1

Error: Package: kungfu-0.0.5-20180615193550.x86_64 (/kungfu-0.0.5-Linux)

Requires: log4cplus2 = 2.0.0 RC1

Error: Package: kungfu-0.0.5-20180615193550.x86_64 (/kungfu-0.0.5-Linux)

Requires: pid >= 2.1.1

Error: Package: kungfu-0.0.5-20180615193550.x86_64 (/kungfu-0.0.5-Linux)

Requires: supervisor >= 3.1.0

经过修改 kungfu/CMakeLists.txt, “功夫的这个文件后来有更新”。

#92 行

OPTION(SKIP_DEPENDENCY_CHECKING

"SKIP_CHECK_KUNGFU_DEPENDENCY, default OFF." ON)

从 OFF 改为 ON, 再删除 build 下重新 cmake .. 就好了, 不觉明历:

build]# rm -rf *

build]# cmake ..

build]# make && make package

build]# yum install kungfu-0.0.5-Linux.rpm

Install 1 Package

Total size: 60 M

Installed size: 60 M

Is this ok [y/d/N]:

11. 当需要一些加密库的时候，使用下述命令安装

yum install openssl-devel

yum install libssh.x86_64

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